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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/658,459		09/10/2003	Ray Sircy Ruemekorf	2001-1288	2231	
466	7590	04/21/2006			EXAMINER	
YOUNG &				KUNEMUND	KUNEMUND, ROBERT M	
745 SOUTH	I 23RD S7	REET		(
2ND FLOOR				ART UNIT	PAPER NUMBER	
ARLINGTON, VA 22202				1722		
				DATE MAILED: 04/21/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/658,459	RUEMEKORF ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Robert M. Kunemund	1722				
	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period fo	• •	/10.057.50.5V0105.510015VV					
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS INSTRUCTION OF THE	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	. the mailing date of this communication. O (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on <u>06 Fe</u>	ebruary 2006					
		action is non-final.					
′=	Since this application is in condition for allowar		secution as to the merits is				
<i>,</i> —	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
4)🖂	Claim(s) 19-29 is/are pending in the application	١.					
-	4a) Of the above claim(s) is/are withdraw						
	5) Claim(s) is/are allowed.						
	5)⊠ Claim(s) <u>19-29</u> is/are rejected.						
	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction and/o	r election requirement.					
Applicati	ion Papers						
9)	The specification is objected to by the Examine	r.					
·	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority ι	under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents	s have been received in Application	on No				
	3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage				
	application from the International Bureau	ı (PCT Rule 17.2(a)).					
* \$	See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachmen							
1)	e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) 🔲 Infon	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date		atent Application (PTO-152)				

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wilsak (6,565,653) in view of GB 1,453,645.

The Wilsak reference teaches an apparatus for the separation of crystals, note entire reference. The slurry is fed into a first crystallizer. The output from the crystallizer is piped into a separator. Some of the crystals are separated into a separate output from the separator. The other output from the separator is then piped into a second crystallizer. The output from the second crystallizer is feed into a second separator, which separate the crystal form the mother liquid into two streams, note figures. The sole difference between the instant claims and the prior art is the recycle to the first crystallizer. However, the GB 1,453,645 reference teaches an apparatus for

crystallization and separation, where the output from the separator, concentrated solvent is then r3ecycled back to the first crystallizer, note figures. It would have been obvious to one of ordinary skill in the art to modify the Wilsak reference by the teachings of the GB 1,453,645 reference to have a recycle in order to prevent clogging in the pipes of the first feed.

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Claims 20 to 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wilsak (6,565,653) in view of GB 1,453,645.

The Wilsak and GB 1,453,645 references are relied on for the same reasons as stated, supra, and differ from the instant claims in the separator type and the recycle feed placement. However, in the absence of unexpected results, it would have been obvious to one of ordinary skill in the art to determine through routine experimentation the optimum, operable separator type and recycle placement in the combined references in order to enhance the efficiency of the crystallization and separation.

Response to Applicants' Arguments

Applicant's arguments filed February 6, 2006 have been fully considered but they are not persuasive.

Applicants' argument concerning the Wilsak reference has been considered and not deemed persuasive. The Wilsak reference does in fact show in figures 2 and 3 that there is a recycle from a separator after the second crystallizer back to the stream input

prior to the first crystallizer. Thus, the apparatus, which is claimed is shown in the prior art. Further, applicants are arguing process steps, which do not further limit the apparatus limitations. The prior art need only be capable of the process and must teach the claimed structure.

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Applicants' argument concerning UK 645 reference is noted. The reference does teach the claimed structure of crystallizers and separators and feed back loop. The combination of reference clearly teaches the entire claimed invention.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M. Kunemund whose telephone number is 571-272-1464. The examiner can normally be reached on 8 hours.

Application/Control Number: 10/658,459

Art Unit: 1722

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on 571-272-1312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RMK

ROBERT KUNEMUND PRIMARY EXAMINER Page 5